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DATE MAILED: 12/31/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

26530 7590 12/31/2009

LADAS & PARRY LLP 224 SOUTH MICHIGAN AVENUE SUITE 1600 CHICAGO, IL 60604 EXAMINER

ANDERSON, GUY G

ART UNIT PAPER NUMBER

2883

 APPLICATION NO.
 FILINO DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10/563,280
 01/04/2006
 Keiji Kashima
 CU-4631 BWH
 6386

TITLE OF INVENTION: RETARDATION LAYER AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/31/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including a below or directed oth tions.	or transmitting ig the Patent, a ierwise in Bloc	the ISSI dvance o k 1, by (JE FEE and PUBLICAT rders and notification of a) specifying a new corre	TON FEE (if requiremaintenance fees vispondence address	ired). I vill be ; and/or	Blocks 1 through 5 s mailed to the current (b) indicating a sepa	hould be completed w correspondence address trate "FEE ADDRESS"	here ss as " for
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATI		CONFIRMATION NO.	.
10/563,280	01/04/2006			Kciji Kashima		(CU-4631 BWH	6386	
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EXAM	INER	ART UN	TT	CLASS-SUBCLASS]				
ANDERSO		2883		349-117000					
I. Change of correspondence address or indication of "Fee Address" (57 CFR I.365). Change of correspondence address (or Change of Correspondence Address form F1058142) attached. The Address 'indication (or 'Fee Address' Indication form F1058147; Rev 03-02 or more recent) attached. Use of a Custome Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O			ondence m istomer	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered autorney or agent) and the names of up to 2. Tregistered patent autorneys or agent) and the names of up to 3. The patent of the patent autorneys or agent. If no name is 3. The patent of th					
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NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) will not b tes Patent and T	e accepte Frademark	d from anyone other than Office.	the applicant; a reg	istered a	attorney or agent; or th	ne assignee or other part	ty in
Authorized Signature					Date				
Typed or printed name				Registration No.					
This collection of informan application. Confident submitting the completed this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu- irginia 22313-1450. DC 13-1450.	FR 1.311. The U.S.C. 122 and USPTO. Time rden, should be O NOT SEND F	information of 137 CFR will vary sent to the EES OR	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by timated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	the publ minutes omment Traden S. SENI	tic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Dep D TO: Commissioner	by the USPTO to proc g gathering, preparing, me you require to comp artment of Commerce, for Patents, P.O. Box 1-	ess) and olete P.O. 450,

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01/04/2006	Keiji Kashima	CU-4631 BWH	6386
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Y LLP	ANDERSON, GUY G		
IGAN AVENUE	ART UNIT	PAPER NUMBER	
04	2883		
	01/04/2006 0 12/31/2009 Y LLP IGAN AVENUE	01/04/2006 Keiji Kashima 0 12/31/2009 Y LLP IGAN AVENUE	01/04/2006 Keiji Kashima CU-4631 BWH 0 12/31/2009 EXAM Y LLP IGAN AVENUE ARTUST 2883

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 315 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 315 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/563,280	KASHIMA ET AL.				
Examiner	Art Unit				
Guy G. Anderson	2883				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to an RCE received 12/7/2009.
- The allowed claim(s) is/are 27,28,32 and 33.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date _____
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 20091210
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other _____.

/BRIAN M. HEALY/

PRIMARY EXAMINER ART UNIT: 2883 Application/Control Number: 10/563,280 Page 2

Art Unit: 2883

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1.1 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/7/2009 has been entered.

EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

2.1 This application is in condition for allowance except for the presence of claims 29-31 and 34-42 which are directed to inventions that were non-elected without traverse. Accordingly, claims 29-31 and 34-42 been cancelled.

Allowable Subject Matter

- 3.1 The following is an examiner's statement of reasons for allowance: Claims 27-28 and 32-33 are allowed for the following reason/s:
 - The instant application is deemed to be directed towards a non-obvious improvement over the invention patented in U.S. Patent No.6912030 to Coates.
- 3.2 Claim 27 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious a retardation layer which functions as a negative C plate comprising a cholesteric structure which is fixed in a range that its helical pitch

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Art Unit: 2883

is 1 pitch or more, wherein a plurality of minute units (domains) having the cholesteric structure exist, wherein a selected reflected wavelength of a selected reflected light of the cholesteric structure is shorter than a wavelength of an incident light, and wherein a maximum major axis of an inscribed ellipse on a surface of the minute units (domains) is 40 um or less.

- 3.3 Claims 28, 32-33 depend either directly or indirectly on Claim 27 and are thus also allowed.
- 3.4 Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 3.5 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guy G. Anderson whose telephone number is 571.272.8045. The examiner can normally be reached on Tuesday-Saturday 1400-2200.
- 3.6 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 571.272.2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 3.7 Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit: 2883

/Guy G Anderson/

Examiner, Art Unit 2883

December 16, 2009

/BRIAN M. HEALY/

for FRANK FONT, SPE of Art Unit

2883